Blood Lead Screening Guidelines for Minnesota

A Physician Should Test a Child at Any Age:

- If the parent expresses a concern about, or asks for their child to be tested for blood lead poisoning
- If the child moved from a major metropolitan area or another country within the last twelve months

Routine Screen:

Child health-care providers should **use a blood lead test*** to screen children at one and two years of age, and children up to six years of age who have not previously been screened if:

The child lives within the city limits of Minneapolis or St. Paul;

or

The child receives services from Minnesota Care (MnCare), the Supplemental Food Program for Women, Infants, and Children (WIC), or Medical Assistance (MA) - which includes the Prepaid Medical Assistance Program (PMAP);

or

The child does not fit the criteria above, and the answer to <u>any</u> of the following questions is "Yes" or "Don't Know":

- During the past six months has the child lived in or regularly visited a home, childcare, or other building built before 1950?
- During the past six months has the child lived in or regularly visited a home, childcare, or other building built before 1978 with recent or ongoing repair, remodeling or damage (such as water damage or chipped paint)?
- Has the child or his/her sibling, playmate, or housemate had an elevated blood lead level?

Periodic Evaluation:

In order to monitor a change in the child's status, administer the following questions annually to all children **three to six years of age** whose previous test results were less than 10 ug/dL. Screen the child with a blood lead test* if the answer to <u>any</u> of the following questions is "Yes" or "Don't Know."

Since the child's last blood lead test:

- Does the child have a playmate, housemate, or sibling who has recently been diagnosed with an elevated blood lead?
- Has the child moved to or started regularly visiting a home, childcare, or other building built before 1950?
- Has there been any repair, remodeling, or damage (such as water damage or chipped paint) to a home childcare, or other building built before 1978 that the child lives in or regularly visits?

^{*} A blood lead test for lead poisoning is a laboratory analysis for lead in the blood of a child or adult. An elevated blood lead test is a result greater than or equal to 10 micrograms lead per deciliter of blood. Laboratories performing blood lead analysis are required to report all results to the Minnesota Department of Health.



The following are general guidelines from the Centers for Disease Control and Prevention. For Blood Lead Clinical Treatment Guidelines for Minnesota, please call the MDH at (651) 215-0890, or visit our website at: www.health.state.mn.us/divs/eh/lead/reports.

Follow-up Care

If result of capillary screening test (ug/dL) is:	Perform diagnostic test on venous blood within:
10-19	3 months
20-44	1 month - 1 week
45-59	48 hours
60-69	24 hours
>70	Immediately (as an emergency lab test)

Follow-up testing for children with elevated diagnostic BLLs

- Children with diagnostic BLLs of 10-14 ug/dL should have at least one follow-up test within 3 months.
- Children with diagnostic BLLs of 15-19 ug/dL should have a follow-up test within 2 months.
- If the result of the follow-up testing is ≥ 20 ug/dL, or if the child has had two or more venous BLLs of 15-19 ug/dL at least 3 months apart, the child should receive clinical management.
- Children with diagnostic BLLs ≥ 20 ug/dL should receive clinical management which includes follow-up testing.

Clinical management includes

- · Clinical evaluation for complications of lead poisoning.
- Family lead education and referrals.
- · Chelation therapy, if appropriate.
- · Follow-up testing at appropriate intervals.

Provide appropriate chelation therapy

 A child with a BLL > 45 ug/dL should be treated promptly with appropriate chelating agents and be removed from sources of lead exposure.

Environmental Management

· Contact the Minnesota Department of Health/Local Public Health Agency.

Sources of Lead

THE MOST COMMON SOURCES OF LEAD ARE PAINT, DUST, SOIL, AND WATER. OTHER SOURCES INCLUDE:

Traditional Remedies/Cosmetics

IN ASIAN, AFRICAN, & MIDDLE EASTERN COMMUNITIES:

(as a cosmetic, or a treatment for skin infections or umbilical stump)

-alkohl, kajal, kohl, or surma (black powder)

IN ASIAN COMMUNITIES:

(for intestinal disorders)

- -bali goli (round flat black bean)
- -ghasard/ghazard (brown powder)
- -kandu (red powder)

IN HMONG COMMUNITIES:

(for fever or rash)

-pay-loo-ah (orange/red powder)

IN LATINO COMMUNITIES:

(for abdominal pain/empacho)

- -azarcon (yellow/orange powder), also known as: alarcon, cora, coral, liga, maria luisa, and rueda
- -greta (yellow/orange powder)

IN SOUTH ASIAN (EAST INDIAN) COMMUNITIES:

(bindi dot)

- -sindoor (red powder)
- (dietary supplement)
- -Ayurvedic herbal medicine products (HMPs)

Occupations/Industries

- -Ammunition/explosives maker
- -Auto repair/auto body work
- -Battery maker
- -Building or repairing ships
- Cable/wire stripping, splicing or production
- -Construction
- -Ceramics worker (pottery, tiles)
- -Firing range worker
- -Leaded glass factory worker
- -Industrial machinery/equipment
- -Jewelry maker or repair
- -Junkyard employee
- -Lead miner
- -Melting metal (smelting)

- -Painter
- -Paint/pigment manufacturing
- -Plumbing
- -Pouring molten metal (foundry work)
- -Radiator repair
- -Remodeling/repainting/renovating houses or buildings
- -Removing paint (sandblasting, scraping, sanding, heat gun or torch)
- -Salvaging metal or batteries
- -Welding, burning, cutting or torching
- -Steel metalwork
- -Tearing down buildings/metal structures

Hobbies/Miscellaneous

(may include above occupations)

- -Antique/imported tovs
- -Chalk (particularly for snooker/billiards)
- -Remodeling, repairing, renovating home
- -Painting/stripping cars, boats, bicycles
- -Soldering
- -Melting lead for fishing sinkers or bullets
- -Making stained glass
- -Firing guns at a shooting range